



Atty. Dkt. No. 034547-0106

*IN THE UNITED STATES PATENT AND TRADEMARK OFFICE*

Applicant: Maurice M. MOLONEY et al.  
Title: PREPARATION OF THIOREDOXIN AND THIOREDOXIN REDUCTASE ON OIL BODIES  
Appl. No.: 09/897,425  
Filing Date: July 3, 2001  
Examiner: David T. FOX  
Art Unit: 1638

**TERMINAL DISCLAIMER**

Assistant Commissioner for Patents  
PO Box 1450  
Alexandria, Virginia 22313-1450

Sir:

Your Petitioner, SemBioSys Genetics, Inc., having its principal place of business of Alberta, of Bay #110, 2985-23<sup>rd</sup> Avenue N.E., Calgary, Alberta, T1Y 7L3, Canada, hereinafter represents that it is the owner of the entire right, title, and interest in and to U.S. Patent Application No. 09/897,425, filed July 3, 2001, by virtue of an Assignment filed simultaneously herewith under separate cover, a copy of which is attached hereto as **Appendix A**; which is a continuation of U.S. Patent Application No. 09/210,843, filed December 18, 1998, now Pat. No. 6,288,304; which is a continuation-in-part of U.S. Patent Application No. 08/846,021, filed on April 25, 1997, now Pat. No. 5,948,682; which is a continuation-in-part of U.S. Patent Application No. 08/366,783, filed on December 30, 1994, now Pat. No. 5,650,554, by virtue of an assignment recorded at Reel 8335, Frame 0451 on February 4, 1997, a copy of which is attached hereto as **Appendix B**; which is a continuation-in-part of U.S. Application No. 08/142,418, filed on November 16, 1993, now abandoned; which is a continuation-in-part of U.S. Application No. 07/659,835, filed on February 22, 1991 now abandoned; and U.S. Patent Application No. 09/893,525, filed on June 29, 2001, which is a continuation-in-part of U.S.

Patent Application No. 09/210,843, filed December 18, 1998, now Pat. No. 6,288,304, by virtue of an assignment filed on June 3, 2003, a copy of which is attached hereto as **Appendix C**.

Your Petitioner, SemBioSys Genetics, Inc., hereby disclaims, except as provided below, the terminal part of the term of any patent granted on U.S. Patent Application 09/897,425 which would extend beyond the expiration date of the full statutory term, as presently shortened by any terminal disclaimer, of U.S. Patent 5,650,554 and any patent granted on U.S. Patent Application No. 09/893,525, and hereby agrees that any patent so granted on the above-identified application shall be enforceable only for and during such period that the legal title to U.S. Patent 5,650,554 and any patent granted on U.S. Patent Application 09/987,425, this agreement to run with any patent granted on the above-identified application and to be binding upon the grantee, its successors or assigns.

In making the above disclaimer, Petitioner does not disclaim any terminal part of any patent granted on the above-identified application, prior to the full statutory term of U.S. Patent 5,650,554 and any patent granted on U.S. Patent Application 09/987,425, as defined in 35 U.S.C. §§154-156 and 173, in the event that U.S. Patent 5,650,554 and any patent granted on U.S. Patent Application 09/987,425 expires for failure to pay a maintenance fee, is held unenforceable or is found invalid in a final judgment by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 C.F.R. §1.321(a), has all claims canceled by a reexamination certificate or as a result of an interference proceeding, or is otherwise not deemed to provide the rights conveyed by 35 U.S.C. §154, prior to the full statutory term of U.S. Patent 5,650,554 and any patent granted on U.S. Patent Application 09/987,425, as defined in 35 U.S.C. §§154-156 and 173, except for the separation of legal title stated above. Further, Petitioner does not disclaim any terminal part of a patent granted on the above-identified application that would extend beyond the present termination of U.S. Patent 5,650,554 and any patent granted on U.S. Patent Application 09/987,425, in the event that such present term is extended by virtue of compliance with the conditions for term extension of any present or future patent term extension provisions of the patent law, including but not limited to 35

U.S.C. §§155, 155A or 156, and without waiving Petitioner's right to extend the term of the above-identified application to the extent provided by law.

The undersigned, being the Attorney of Record for the above-identified application, and duly authorized to act on behalf of Petitioner, certifies that he has reviewed the Assignments attached as **Appendices A, B and C**, and to the best of his knowledge and belief, legal title the above-identified application rests with Petitioner, SemBioSys Genetics, Inc.

The undersigned declares that all statements made herein of their own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the above-identified application or any patent issuing therefrom.

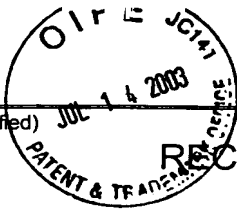
Respectfully submitted,

Date 14 July 2003

By Stephen A. Bent

FOLEY & LARDNER  
Washington Harbour  
3000 K Street, N.W., Suite 500  
Washington, D.C. 20007-5143  
Telephone: (202) 672-5404  
Facsimile: (202) 672-5399

Stephen A. Bent  
Attorney for Applicant  
Registration No. 29,768

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copies thereof.

1. Name of conveying party(ies):

**Bipin K. DALMIA**

2. Name and address of receiving party(ies):

**Syngenta Participations AG  
Schwarzwaldallee 215  
Basel, Switzerland 4058**

Additional conveying party(ies)

**NO**

3. Nature of conveyance:

**ASSIGNMENT**

Execution Date:

**July 4, 2003**

Additional name(s) &amp; address(es) attached?

**YES**

4. Application number(s) or patent number(s):

If this is being filed together with a new application, the execution date of the application is:

A. Patent Application Number(s):

**09/897,425**

B. Patent Number(s):

Additional numbers attached? **NO**

5. Name and address of party to whom correspondence concerning document should be mailed:

**Stephen A. Bent  
FOLEY & LARDNER  
Washington Harbour  
3000 K Street, N.W., Suite 500  
Washington, D.C. 20007-5143**6. Total number of applications/patents involved: **1**7. Total fee (37 C.F.R. § 3.41): **\$40.00**☒ Check Enclosed

Charge to deposit account

8. Deposit account number: **19-0741****DO NOT USE THIS SPACE**

9. Statement and signature:

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. The Commissioner is hereby authorized to charge any additional recordation fees which may be required in this matter to the above-identified deposit account.*

**Stephen A. Bent****July 14, 2003**

Name of person signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: **3**

ASSIGNMENT

I,

Bipin K. Dalmia

residing at

7353 Mannix Court  
San Diego, CA 92129, USA

for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, do hereby sell and assign to Syngenta Participations AG, a company organized under the laws of the Swiss Confederation, having a place of business at Schwarzwaldallee 215, Basel, Switzerland 4058, its successors, assigns and legal representatives, all my right, title and interest, which includes the right to and full benefit of such priorities as may now or hereafter be granted to me by any applicable local or foreign laws or by treaty, including any international convention for the protection of industrial property, in and for the United States, its territories and possessions, as well as all foreign countries, in and to the invention entitled:

PREPARATION OF THIOREDOXIN AND THIOREDOXIN REDUCTASE ON OIL BODIES

jointly invented by me and Maurice M. Moloney and described in the following patent application(s):

United States Patent Application No. 09/897,425, filed on July 3, 2001

including (1) said United States Provisional Patent Application and all United States and/or foreign patent applications claiming the benefit of priority thereof, (2) said United States Patent Application and all continuations and divisions thereof (including further continuations and divisions such as, but not limited to, continuations of continuations and divisions of continuations), (i) all United States Letters Patent which may be issued and/or granted on all such applications, (ii) all applications for reissues and extensions of and reexamination certificates for all such United States Letters Patent and (iii) all reissues and extensions and reexamination certificates issued for all such United States Letters Patent, and (3) said International Patent Application and all national stage applications, which may be filed in the United States and/or any foreign countries, claiming the benefit of priority thereof (including all continuations, divisions, further continuations and divisions, etc., of said International Patent Application and all continuations, divisions, further continuations and divisions, etc., of any such national stage applications), (i) all foreign Letters Patent which may be issued and/or granted on all such applications, and (ii) all foreign patent or other intellectual property rights

(such as, but not limited to, utility models) derivable from said International Patent Application in accordance with any applicable foreign laws or by treaty, said interest being the entire ownership of said invention and all of said applications, United States Letters Patent (including reissue Letters Patent), extensions and reexamination certificates, foreign Letters Patent, and foreign patent or other intellectual property rights derivable from said International Patent Application to be held and enjoyed by Syngenta Participations AG and its successors and assigns to the full end of the terms to which said United States Letters Patent (including reissue Letters Patent), extensions and reexamination certificates, foreign Letters Patent, and foreign patent or other intellectual property rights derivable from said International Patent Application may be granted and/or issued, as fully and entirely as the same would have been held and enjoyed by me if this sale, assignment, and transfer had not been made;

And I hereby agree to sign and/or execute any further documents and/or instruments which may be necessary, lawful, and proper in and/or for the filing and/or prosecution of said applications for United States Letters Patent (including reissue Letters Patent), extensions and reexamination certificates, foreign Letters Patent, and foreign patent or other intellectual property rights derivable from said International Patent Application and/or the granting and/or issuance thereof and/or to otherwise secure title to said invention and all of said applications, United States Letters Patent (including reissue Letters Patent), extensions and reexamination certificates, foreign Letters Patent, and foreign patent or other intellectual property rights derivable from said International Patent Application in Syngenta Participations AG and its successors and assigns.

Signed this 4<sup>th</sup> day of July, 2003 by Bipin K. Dalmia  
BIPIN K. DALMIA

FORM PTO-1595 (modified)

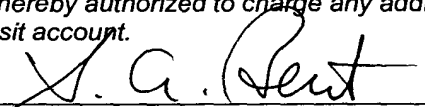
U.S. DEPARTMENT OF COMMERCE

(Rev. 6-93)

# RECORDATION FORM COVER SHEET PATENTS ONLY

Patent and Trademark Office

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copies thereof.

1. Name of conveying party(ies):  <b>Maurice M. MOLONEY</b> <b>Syngenta Participations AG</b>		2. Name and address of receiving party(ies):  <b>SEMBIOSYS GENETICS, INC.</b> <b>Bay #110, 2985-23<sup>rd</sup> Ave., N.E.</b> <b>Calgary Alberta, T1Y 7L3, Canada</b>			
Additional conveying party(ies) <b>NO</b>		Additional name(s) & address(es) attached? <b>NO</b>			
3. Nature of conveyance: <b>ASSIGNMENT</b>  Execution Date: <b>July 4, 2003 and July 7, 2003</b>					
4. Application number(s) or patent number(s):  If this is being filed together with a new application, the execution date of the application is:  <table border="0"> <tr> <td style="width: 50%;">           A. Patent Application Number(s):   <b>09/897,425</b> </td> <td style="width: 50%;">           B. Patent Number(s):   </td> </tr> </table>				A. Patent Application Number(s):  <b>09/897,425</b>	B. Patent Number(s):  
A. Patent Application Number(s):  <b>09/897,425</b>	B. Patent Number(s):  				
Additional numbers attached? <b>NO</b>					
5. Name and address of party to whom correspondence concerning document should be mailed:  <b>Stephen A. Bent</b> <b>FOLEY &amp; LARDNER</b> <b>Washington Harbour</b> <b>3000 K Street, N.W., Suite 500</b> <b>Washington, D.C. 20007-5143</b>		6. Total number of applications/patents involved: <b>1</b>  7. Total fee (37 C.F.R. § 3.41): <b>\$40.00</b>  <input checked="" type="checkbox"/> Check Enclosed <input type="checkbox"/> Charge to deposit account  8. Deposit account number: <b>19-0741</b>			
DO NOT USE THIS SPACE					
9. Statement and signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. The Commissioner is hereby authorized to charge any additional recordation fees which may be required in this matter to the above-identified deposit account.</i>					
<b>Stephen A. Bent</b>					
Name of person signing		Signature			
		Date <b>July 14, 2003</b>			
Total number of pages including cover sheet, attachments, and document: <b>5</b>					

UNITED STATES

ASSIGNMENT

WHEREAS I, MAURICE M. MOLONEY, whose full post office address is 34 Edgebrook Cove N.W., Calgary, Alberta, T3A 5N5, Canada, have invented certain new and useful improvements in an invention entitled **PREPARATION OF THIOREDOXIN AND THIOREDOXIN REDUCTASE ON OIL BODIES** for which an application for United States Letters Patent was filed on July 3, 2001 as serial No. 09/897,425.

AND WHEREAS SEMBIOSYS GENETICS INC., a corporation of the Province of Alberta having a place of business at Bay #110, 2985-23rd Avenue N.E., Calgary, Alberta, Canada, T1Y 7L3, has acquired from me the whole right, title and interest for the United States of America and all other countries, at least as of the date of the invention, in and to the said invention and in and to any Letters Patent that may be obtained therefor, and in and to said application,

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt of all of which is hereby acknowledged, I, MAURICE M. MOLONEY, by these presents confirm that I have sold, assigned and transferred and do hereby sell, assign and transfer unto the said SEMBIOSYS GENETICS INC., the full and exclusive right to the said invention in the United States of America and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor, together with the right to claim the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property based on said application for United States Letters Patent.

I agree that I will without further consideration do all such things and execute all such documents as may be necessary or desirable to obtain and maintain patents for said invention and for additions and modifications thereto in any and all countries, and to vest title thereto in said assignee, his successors, assigns and legal representatives or nominees.



403 250 3886

- 2 -

I hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the said SEMBIOSYS GENETICS INC., the assignee of the entire right, title and interest in and to the same, for his sole use and benefit, and for the use and benefit of his successors and assigns, to the full end of the term for which Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made.

The undersigned hereby grants the firm of Foley & Lardner (Washington Harbour, 3000 K Street N.W., Suite 500, Washington, D.C., U.S.A. 20007-5143) the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

SIGNED this 9<sup>th</sup> day of July, 2003, at Calgary  
Alberta

Witness

Maurice M. Moloney  
MAURICE M. MOLONEY

### WITNESS STATEMENT

I, Kimberly Irving, whose full post office address is \_\_\_\_\_  
\_\_\_\_\_ declare and say:

That the signature as shown above is the signature of Maurice M. Moloney.

Signed at Calgary Alberta this 9<sup>th</sup> day of July,  
2003.

Signature

## ASSIGNMENT

**SYNGENTA PARTICIPATIONS AG**, a company organized under the laws of the Swiss Confederation, having a place of business at Schwarzwaldallee 215, Basel, Switzerland 4058, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, does hereby sell and assign to **SEMBIOSYS GENETICS, INC.**, a company organized under the laws of the Province of Alberta, having a place of business at Bay #110, 2985-23<sup>rd</sup> Avenue, N.E., Calgary, Alberta, Canada T1Y7L3, its successors, assigns and legal representatives, all right, title and interest, which includes the right to and full benefit of such priorities as may now or hereafter be granted to **SYNGENTA PARTICIPATIONS AG**, by any applicable local or foreign laws or by treaty, including any international convention for the protection of industrial property, in and for the United States, its territories and possessions, as well as all foreign countries, in and to the invention entitled:

### PREPARATION OF THIOREDOXIN AND THIOREDOXIN REDUCTASE ON OIL BODIES


described in the following patent application(s):

United States Patent Application No. 09/897,425, filed on July 3, 2001, and assigned to

**SYNGENTA PARTICIPATIONS AG** by joint inventor Bipin K. Dalmia

including (1) said United States Provisional Patent Application and all United States and/or foreign patent applications claiming the benefit of priority thereof, (2) said United States Patent Application and all continuations and divisions thereof (including further continuations and divisions such as, but not limited to, continuations of continuations and divisions of continuations), (i) all United States Letters Patent which may be issued and/or granted on all such applications, (ii) all applications for reissues and extensions of and reexamination certificates for all such United States Letters Patent and (iii) all reissues and extensions and reexamination certificates issued for all such United States Letters Patent, and (3) said International Patent Application and all national stage applications, which may be filed in the United States and/or any foreign countries, claiming the benefit of priority thereof (including all continuations, divisions, further continuations and divisions, etc., of said International Patent Application and all continuations, divisions, further continuations and divisions, etc., of any such national stage applications), (i) all foreign Letters Patent which may be issued

and/or granted on all such applications, and (ii) all foreign patent or other intellectual property rights (such as, but not limited to, utility models) derivable from said International Patent Application in accordance with any applicable foreign laws or by treaty, said interest being the entire ownership of said invention and all of said applications, United States Letters Patent (including reissue Letters Patent), extensions and reexamination certificates, foreign Letters Patent, and foreign patent or other intellectual property rights derivable from said International Patent Application to be held and enjoyed by **SEMBIOSYS GENETICS, INC.** and its successors and assigns to the full end of the terms to which said United States Letters Patent (including reissue Letters Patent), extensions and reexamination certificates, foreign Letters Patent, and foreign patent or other intellectual property rights derivable from said International Patent Application may be granted and/or issued, as fully and entirely as the same would have been held and enjoyed by **SYNGENTA PARTICIPATIONS AG** if this sale, assignment, and transfer had not been made.

Signed this 7<sup>th</sup> day of July, 2003 by   
SYNGENTA PARTICIPATIONS AG



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

APRIL 08, 1997

PTAS

DEHLINGER & ASSOCIATES  
CAROL A. STRATFORD  
P.O. BOX 60850  
PALO ALTO, CA 94306



\*100352746A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, NORTH TOWER BUILDING, SUITE 10C35, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/04/1997

REEL/FRAME: 9335/0451  
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

## ASSIGNOR:

UNIVERSITY TECHNOLOGIES  
INTERNATIONAL, INC.

DOC DATE: 01/24/1997

## ASSIGNEE:

SEMBIOSYS GENETICS INC.  
14 STREET, N.W., SUITE 204, 609  
CALGARY, ALBERTA, CANADA T2N 2A1

SERIAL NUMBER: 08366783  
PATENT NUMBER:

FILING DATE: 12/30/1994  
ISSUE DATE:

KIMBERLY BARNES, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

RECEIVED

DOCKETED

APR 14 1997

DEHLINGER &amp; ASSOCIATES

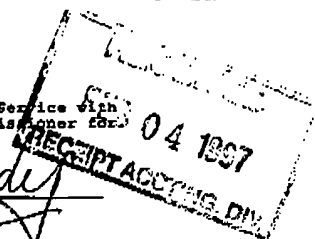
I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C., 20231, on:

Date:

January 30, 1997

By:

Rachel Hernandez



DOCKET No.: 8310-0001

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## IN RE APPLICATION OF:

Maurice M. Moloney

EXAMINER: David Fox

SERIAL No.: 08/366,783

ART UNIT: 1803

FILED: 30 December 1994

02-12-1997

FOR: Oil-Body Proteins as  
Carriers of High-Value  
Peptides in Plants



100352746

Attention: Assignment Branch

Transmittal for Recordation of Assignment

Sir: Attached please find an Assignment document for recordal.

1. The party conveying this interest is:

Name: University Technologies International, Inc.  
Address: Suite 204,609 - 14 Street N.W.  
Calgary, Alberta, Canada T2N 2A1

2. The rights are being conveyed to:

Name: SemBioSys Genetics Inc.  
Address: Suite 204,609 - 14 Street N.W.  
Calgary, Alberta, Canada T2N 2A1

3. The accompanying document intends to accomplish: ☒ Assignment

4. Please address correspondence to:

Name: Dehlinger & Associates  
Address: P.O. Box 60850  
Palo Alto, CA 94306  
Phone: (415) 324-0880

5. The attached Assignment was executed on:

Date: January 24, 1997

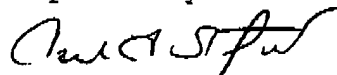
6. The attached document:

- ☒ is in the English language.  
☐ is not in the English language and a verified English translation signed by the individual making the translation is attached.

420 4th 02/07/97 09:00 AM  
1 881

7. Submitted herewith is:
- ☒ the original document
  - ☐ a true copy of the original document.
8. This transmittal sheet identifies only one application.
9. ☒ Attached is a check which covers the \$40.00 fee for recordal of the enclosed Assignment.
- ☐ Please charge the fee to Deposit Account No. 04-0531. A duplicate copy of the transmittal is provided.
  - ☐ Enclosed is the transmittal letter which bears the original indication of payment and the control number assigned by the Assignment Branch.
10. Please return the recorded document to the address shown below.
11. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.
12. Total number of pages, including cover sheet, attachments and document 4.
13. The Commissioner is authorized to charge any insufficiency in fee (or to credit any overpayment therein) relating to the instant communication to Deposit Account No. 04-0531.

Respectfully submitted,



Carol A. Stratford  
Registration No. 34,444

Date: Jan 30, 1997

Correspondence Address:  
Dehlinger & Associates  
P.O. Box 60850  
Palo Alto, CA 94306  
Phone: (415) 324-0880

UNITED STATES

ASSIGNMENT

WHEREAS University Technologies International Inc., whose full post office address is Suite 204, 609 - 14 Street N.W., Calgary, Alberta, Canada, T2N 2A1, have invented certain new and useful improvements in an invention entitled **OIL-BODY PROTEINS AS CARRIERS OF HIGH-VALUE PEPTIDES IN PLANTS** for which an application for United States Letters Patent was filed on December 30, 1994 under Serial No. 08/366,783 under the above title,

AND WHEREAS SemBioSys Genetics Inc., whose full post office address is Suite 204, 609 - 14 Street N.W., Calgary, Alberta, Canada, T2N 2A1, has acquired from University Technologies International Inc. the whole right, title and interest for the United States of America and all other countries in and to the said invention and in and to any Letters Patent that may be obtained therefor, and in and to said application,

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt of all of which is hereby acknowledged, University Technologies International Inc., by these presents confirm that it has sold, assigned and transferred and do hereby sell, assign and transfer unto the said SemBioSys Genetics Inc., the full and exclusive right to the said invention in the United States of America and all other countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor and all reissues or extensions of such patents, and the entire right, title and interest in and to said application, and in and to any divisions, continuations, continuations-in-part, and renewals and extensions of said application, together with the right to claim the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property based on said application for United States Letters Patent.

- 2 -

University Technologies International Inc. agrees that it will without further consideration do all such things and execute all such documents as may be necessary or desirable to obtain and maintain patents for said invention and for additions and modifications thereto in any and all countries, and to vest title thereto in said assignee, its successors, assigns and legal representatives or nominees.

University Technologies International Inc. hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said SemBioSys Genetics Inc. the assignee of the entire right, title and interest in and to the same, for its sole use and benefit, and for the use and benefit of its successors and assigns, to the full end of the term for which Letters Patent may be granted as fully and entirely as the same would have been held by University Technologies International Inc. had this assignment and sale not been made.

SIGNED this 24 day of JANUARY, 1997 at CALGARY  
ALBERTA, Canada.

UNIVERSITY TECHNOLOGIES  
INTERNATIONAL INC.

Melanie Fisher  
Witness

Beverly A. Sheridan  
Name:  
Title:  
BEVERLEY A. SHERIDAN  
PRESIDENT & C.E.O



RECORDATION FORM COVER SHEET  
PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies)

MAURICE M. MOLONEY  
GIJS VAN ROOIJEN

Additional name(s) of conveying party(ies) attached?  
Yes \_\_\_ No ☒

2. Name and address of receiving party(ies):

Name: SEMBIOSYS GENETICS INC.

Internal Address: \_\_\_\_\_

Street Address: Bay #110, 2985-23rd Ave. N.E.

City: CALGARY State: ALBERTA

ZIP: T1Y 7L4 Country: Canada

Additional names/addresses attached? Yes \_\_\_ No ☒

3. Nature of conveyance:

☒ Assignment \_\_\_ Merger

\_\_\_ Security Agreement \_\_\_ Change of Name

Other: \_\_\_\_\_

Execution Date: May 26, 2003; May 27, 2003

If this document is being filed together with a new application,  
the execution date of the application is:  
\_\_\_\_\_

A. Patent Application No.(s) 09/893,525

B. Patent No.(s)

Additional numbers attached? Yes \_\_\_ No ☒

5. Name and address of party to whom correspondence concerning  
document should be mailed:

Name: MICHELINE GRAVELLE

Internal Address: c/o Bereskin & Parr

Street Address: Box 401, 40 King Street West

City: Toronto State: Ontario ZIP: M5H 3Y2

Country: Canada

6. Total number of applications  
and patents involved: ..... 1

7. Total fee (37 CFR 3.41) ..... \$40.00

☒ Enclosed in cheque No. \_\_\_\_\_

\_\_\_ Authorized to be charged to deposit account

8. Deposit account number:

02-2095

☒ The Commissioner is authorized to charge any deficiency  
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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the  
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Name of Person Signing  
BP File # 9369-172

Micheline Gravelle  
Signature

June 2, 2003

Date

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UNITED STATESASSIGNMENT

WHEREAS WE, Maurice M. Moloney and Gijs van Rooijen whose full post office addresses are 34 Edgebrook Cove NW, Calgary, Alberta, T3A 5N5, Canada and 3223 Bearspaw Drive, N.W., Calgary, Alberta, T2L 1T1, Canada, have invented certain new and useful improvements in an invention entitled **PREPARATION OF HETEROLOGOUS PROTEINS ON OIL BODIES** for which an application for United States Letters Patent was filed on June 29, 2001 as serial No. 09/893,525,

AND WHEREAS SemBioSys Genetics Inc. a corporation of the Province of Alberta having a place of business at Bay #110, 2985-23rd Avenue N.E., Calgary, Alberta, Canada, T1Y7L3, has acquired from us the whole right, title and interest for the United States of America and all other countries in and to the said invention and in and to any Letters Patent that may be obtained therefor, and in and to said application,

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt of all of which is hereby acknowledged, WE, Maurice M. Moloney and Gijs van Rooijen, by these presents confirm that we have sold, assigned and transferred and do hereby sell, assign and transfer unto the said SemBioSys Genetics Inc., the full and exclusive right to the said invention in the United States of America and all other countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor, and the entire right, title and interest in and to said application, and in and to any divisions, continuations, continuations-in-part and extensions of said application, together with the right to claim the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property based on said application for United States Letters Patent.

- 2 -

We agree that we will without further consideration do all such things and execute all such documents as may be necessary or desirable to obtain and maintain patents for said invention and for additions and modifications thereto in any and all countries, and to vest title thereto in said assignee, his successors, assigns and legal representatives or nominees.

We hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the said SemBioSys Genetics Inc., the assignee of the entire right, title and interest in and to the same, for his sole use and benefit, and for the use and benefit of his successors and assigns, to the full end of the term for which Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made.

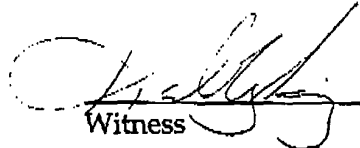
The undersigned hereby grant the firm of Bereskin & Parr (Box 401, 40 King Street West, Toronto, Ontario, Canada M5H 3Y2) the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

SIGNED this 26<sup>th</sup> day of May 2003, at Calgary  
Alberta.

  
Witness

  
Maurice M. Moloney

SIGNED this 27<sup>th</sup> day of May 2003, at Calgary, AB

  
Witness

  
Gijs van Rooijen